

**Board of County Commissioners
Leon County, Florida**

**Workshop on “Green Buildings” and FSU’s
Off Grid Zero Emissions Buildings**

**1:30 to 3 p.m.
Tuesday, May 22, 2007**

**Leon County Board of County Commissioner Chambers
Leon County Courthouse, 5th Floor**

This document distributed May 17, 2007


Board of County Commissioners

Workshop Agenda

Date of Meeting: May 22, 2007

Date Submitted: May 16, 2007

To: Honorable Chairman and Members of the Board

From: Parwez Alam, County Administrator 

Alan Rosenzweig, Assistant County Administrator 

Kim Dressel, Management Services Director 

Subject: Workshop on "Green" Buildings and FSU's Off-Grid Zero Emissions Building

Statement of Issue:

This workshop item requests Board acceptance of a report regarding "Green" buildings, Florida State University's (FSU) Off-Grid Zero Emissions Building (OGZEB) and an update on the energy conservation strategies the Board approved at its August 22, 2006 Smart Energy Strategies workshop and ratified at its September 12, 2006 meeting.

Background:

During its December 12, 2005 retreat, the Board designated a Comprehensive Energy Policy as its third priority. The Board's discussion during the retreat highlighted the areas of solar energy, renewable energy resources, hybrid cars, biodiesel, green buildings, amending building codes, air quality, co-generation of electricity and incentives. At its August 22, 2006 workshop, the Board approved 15 strategies to increase energy conservation and reduce greenhouse gas emissions. The strategies are in various stages of implementation.

At its January 23, 2007 meeting, the Board authorized staff to schedule a workshop on "green" buildings, especially focusing on the Florida State University's (FSU's) sustainable energy institute and the house being built that will be powered by solar and hydrogen fuel cells and the overall benefits of green buildings.

Analysis:

Off-Grid Zero Emissions Building (OGZEB) - The Sustainable Energy Science and Engineering Center (SESEC) at FSU held a groundbreaking ceremony on February 27, 2006 to announce the construction of a new, energy efficient building on its campus. SESEC is a research group at FSU that specializes in alternative energy. The new facility, OGZEB, will feature building-design and energy innovations developed by local architects and engineers, as well as students and faculty from

SESEC.

Among its highlights, OGZEB will be completely solar-powered, with excess electricity being used to produce hydrogen for energy storage; will make use of hydrogen appliances (hydrogen burns cleaner and more efficiently than natural gas); will feature high-efficiency water and electrical systems; and is designed to achieve Leadership in Energy and Environmental Design (LEED) - New Construction (NC) platinum certification for energy efficiency – the first such building in Florida. LEED will be explained in detail later in this report.

The layout of the home is going to be 1,000 square feet. Eight hundred (800) square feet will be used to create a graduate-style flat. It will consist of two bedrooms, one bathroom, a kitchen and a living room. Graduate students will live in the flat as a part of the research to make sure that the technology is truly applicable. The remaining area will be two offices that the members of the research team will use. The house will be located between the Carothers and Love Buildings on FSU's campus (Attachment #1). The building is expected to be completed by December 2007.

During the workshop, Justin Kramer, project manager for SESEC, and Kristin Dozier, project manager for Mad Dog Construction, will provide an overview and update on the project.

Greenovation – The Miami-based John S. and James L. Knight Foundation has picked Tallahassee as one of the launch sites of the New Knight Creative Communities Initiative (KCCI). It's a partnership with local and state government, universities, grade schools, and Leon County's businesses. The project's host committee, which includes leaders in local government, education and business, chose 33 people to serve as the Catalyst Team. The Catalyst Team sees a great opportunity to leverage Tallahassee's assets and personality to substantially grow the economy, and to leave an important legacy for future generations: a clean, healthy environment.

One of four initiatives of this organization is to bring Greenovation to Tallahassee. The primary goal of this initiative is to establish Tallahassee as the leader in existing and emerging "green" technologies that benefit the environment and spur economic development. Facets of this initiative include taking an inventory of existing technologies and activities within the region, establishing policy and regulation to promote energy conservation and sustainable design, and developing a strategic plan to create the infrastructure to support intellectual and entrepreneurial development.

During the workshop, Kristin Dozier and Todd Sperry, former director of construction for St. Joe and Co-Chair of Greenovation new construction and site development, will provide an update on Greenovation.

Green Building Rating Systems

Green building is the practice of increasing the efficiency with which buildings and their sites use and harvest energy, water, and materials, and reducing building impacts on human health and the

environment, through better siting, design, construction, operation, maintenance, and removal. By adopting green building strategies, the County can maximize both economic and environmental performance. Green construction methods can be integrated into buildings at any stage, from design and construction, to renovation and deconstruction. However, the most significant benefits can be obtained if the design and construction team takes an integrated approach from the earliest stages of a building project. Potential benefits of green building can include: enhance and protect biodiversity and ecosystems, improve air and water quality, restore natural resources, reduce operating costs, optimize life-cycle economic performance, enhance occupant comfort and health, minimize strain on local infrastructure, and improve the overall quality of life.

There are various existing green building rating systems, including those administered by: the U.S. Green Building Council (USGBC), the Florida Green Building Coalition (FGBC) and the Green Building Initiative (GBI). By adopting green building strategies, the County can maximize both economic and environmental performance.

- (1) U.S. Green Building Council's (USGBC's) Leadership in Energy and Environmental Design Standards (LEED) - LEED is the nationally accepted benchmark for the design, construction, and operation of high performance green buildings. LEED gives building owners and operators the tools they need to have an immediate and measurable impact on their buildings' performance. LEED promotes a whole-building approach to sustainability by recognizing performance in five key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality. Within these credit areas, points are available. The number of points a project earns determines the level of certification the building will be awarded. There are four progressive levels of certification: Certified, Silver, Gold and Platinum (Attachment #2, page 2). Since its 2002 inception, the USGBC has certified nearly 550 buildings across the country. LEED recognizes achievements and promotes expertise in green building through a comprehensive system that offers project certification, professional accreditation, training, and resources.
- (2) Florida Green Building Coalition, Inc.'s (FGBC's) "Green Commercial Building" Designation Standard - FGBC is a nonprofit Florida Corporation dedicated to improving the built environment. The intent of the "Green Commercial Building" Designation Standard is to encourage owners of smaller sized Commercial Projects to adopt green and sustainable strategies during the design and construction of their project and to receive recognition for their efforts. This standard covers all commercial occupancies listed in the current Florida Building Code. To use this standard, the project design team reviews a checklist (Attachment #3) along with a Reference Guide. The team determines which credit points will be pursued (or targeted). The owner authorizes one of the design team members to be the Designated Professional. The Designated Professional compiles the appropriate documentation for each achieved credit point as the design process evolves.

Once all documentation has been collected, organized, and reviewed, the Designated Professional submits an application to FGBC. A Project Evaluator, appointed by FGBC, reviews the submittal, determines its compliance with the standard and issues the Certification.

The FGBC Green Commercial Standard is equivalent of the Silver certification under LEED. Staff has been advised that a new FGBC Commercial Standard will come out in 2008, requiring, as a prerequisite, certification under USGBC LEED (at the minimal level).

- (3) Green Building Initiative's (GBI) Green Globes System – GBI is a non-profit network of building industry leaders committed to bringing green to mainstream residential and commercial construction. GBI believes in building approaches that are environmentally progressive, but also practical and affordable for builders to implement. Green Globes is a building and management environmental auditing system based online. It is a tool used to measure the environmental performance of buildings in terms of energy use, water use, hazardous materials, waste management, and indoor environment. Each environmental performance factor is evaluated by a confidential questionnaire that allows users to generate an online report about their project. This report helps the customer determine for each stage of project delivery what the proper assessment and guidance are for their particular project. Once completed, Green Globes gives ratings in seven areas: project management, site, energy, water, resources, emissions and effluents, and indoor environment (Attachment #4).

LEED, FGBC's Green Commercial Building Designation Standard and GBI's Green Globes System consider similar categories or factors in their rating systems (see Table 1 below).

Table 1 - LEED, FGBC & GREEN GLOBES RATING SYSTEMS SUMMARY					
LEED		FGBC		Green Globes	
Performance Category	% Points	Performance Category	% Points	Performance Category	% Points
Energy & Atmosphere	25%	Energy	23%	Energy	38%
Indoor Environmental Quality	22%	Health	19%	Indoor Environment	20%
		General	12%	Emissions, Effluents & Other Impacts	7%
Sustainable Site	20%	Site	14%	Site	11.5%
Materials & Resources	19%	Materials	15%	Resources	10%
Water Efficiency	7%	Water	12%	Water	8.5%
Innovation & Design Process	7%	*Disaster Mitigation	5%	Project Management	5%
Total Percentage of Points	100%	Total Percentage of Points	100%	Total Percentage of Points	100%
Total Points Possible	69	Total Points Possible	100	Total Points Possible	1,000
*Disaster Mitigation is unique to FGBC					

For ease of reference, similar factors are listed next to one another for each of the rating systems. However, the specific subcategories for each system differs.

Additionally, the Florida Energy Efficiency Code provides for a uniform standard of energy efficiency by, at a minimum, setting forth minimum requirements for exterior envelopes, lighting, electrical distribution, and selection of heating, lighting, ventilating, air conditioning and service water heating systems. It applies to all new buildings, additions to existing buildings and manufactured homes, renovations to existing buildings (both public and private), to the site-installed components and features of manufactured homes at their first set-up, and to the installation or replacement of building systems and components with new products for which thermal efficiency standards are set.

Costs of Building Green

Upfront costs of building green remain higher on average than standard building costs. Staff estimates added project construction costs in the range of two to seven percent of total construction costs. There are also additional costs associated with the design and certification of these projects, depending on which certifying agency you use. These additional costs can range from three to five percent for a typical County building. The total additional costs for construction, design and certification is estimated to be five to twelve percent, depending upon regional costs, certification level, and the costs for specific items pursued. Such costs do not consider potential life cycle cost savings.

Supporters of green building suggests builders look beyond first costs and to factor in the long-term operational savings resulting from green building practices, along with any associated environmental, productivity, health and community-related benefits.

Recent Legislation

Green Building Standards - Earlier this month the Florida Legislature passed HB 7123, a glitch bill to the 2006 Comprehensive Energy Policy adopted last year. This bill requires that county and city buildings meet the standards of LEED, GBI, or a nationally recognized, high performance green building rating system, as approved by the Department of Management Services (DMS). The requirement applies to buildings whose architectural plans are designed after July 1, 2008. FGBC representatives have been in contact with DMS and were assured that FGBC will be incorporated into the rulemaking for this legislation.

In addition, the bill also addresses the following:

Energy Efficiency Incentives

- A.) Residential - The bill directs the Florida Building Commission (Commission) to convene a workgroup comprised of a number of key stakeholders including the Florida Association of

Counties. The workgroup must develop a model residential energy efficiency ordinance that provides incentives to meet energy standards. The Commission must present the developed ordinance to the Legislature by March 1, 2008.

- B.) Florida Energy Code for Building Construction (Florida Building Code) - The Commission must also consult with the stakeholders to review the Florida Energy Code for Building Construction. An analysis of the Code will be conducted to review the cost-effectiveness energy efficiency levels for residential buildings, and to identify cost-effective means to improve energy efficiency in commercial buildings. The Commission will adopt a standard for the construction of all new residential, commercial, and government buildings. Subsequently, the Commission must present a report to the Legislature by March 1, 2008.
- C.) Application: The bill does not indicate whether local governments will be mandated to adopt the ordinance or standard developed by the workgroup and Commission. Staff anticipates that this issue will be addressed during the 2008 legislative session.

International Council for Local Environmental Initiatives (ICLEI – Local Governments for Sustainability) - During the August 22, 2006 workshop, the Board directed staff to pursue County membership in ICLEI. Membership in ICLEI would provide information and a network of peers to Leon County regarding worldwide, national and regional efforts in the areas of climate protection, reduction of greenhouse gas emissions and impacts of climate change and other environmental issues. Additionally, ICLEI develops and provides at no cost to the members case studies, training workshops, publications and other learning opportunities. An application for membership in ICLEI is provided in Attachment #5.

Staff recommends that the Board designate an elected liaison to act as the voting designee for the County. ICLEI recommends that this person have an interest in sustainable development and/or the environment.

Local governments that join ICLEI are asked to participate in their hallmark program, The Cities for Climate Protection (CCP) Campaign. Any city, county, or town can participate in the CCP Campaign by adopting a resolution that commits to achieving the CCP Five Milestones:

1. Analyze greenhouse gas emission levels. Based on energy and waste data for Leon County operations, greenhouse gas emissions for a base year and for a forecast year will be calculated. The inventory and the forecast capture emissions from Leon County operations (e.g., County owned and/or operated buildings, fleet etc.). The inventory and forecast will provide a benchmark against which the County can measure progress.
2. Set a reduction target. After the emissions inventory is completed, the Board would establish an emission reduction target for the County operations. The target is essential both to create a framework to guide the planning and implementation of measures.

3. Develop a Local Action Plan. The County develops a Local Action Plan that describes or lists the policies and measures that it will take to reduce greenhouse gas emissions and achieve its emissions reduction target. Most plans include a timeline, a description of financing mechanisms, and an assignment of responsibility to departments and staff.
4. Implement the Local Action Plan. The County would implement the policies and measures contained in their Local Action Plan. Typical policies and measures implemented by CCP participants include energy efficiency improvements to municipal buildings and water treatment facilities, installation of renewable power applications, and methane recovery from waste management. Staff would identify measures applicable to its operations.
5. Monitor the progress and report results. Monitoring and verifying progress on the implementation of measures to reduce or avoid greenhouse gas emissions is an ongoing process. Monitoring begins once measures are implemented and continues for the life of the measures, providing important feedback that can be used to improve the measures over time.

ICLEI recommends designating a staff person as the overall CCP project coordinator. Typically, the CCP project coordinator works in planning, public works, buildings, or energy offices. Architect John Ward, Construction Manager II, will serve in this capacity.

ICLEI provides a software package as part of the membership to assist in developing the inventory. Additionally, ICLEI offers a service to have the emissions inventory done by their employees for approximately \$30,000. However, there will be additional costs to the County to gather information and to coordinate the project. To reduce County expenses, staff is recommending that the inventory be conducted in-house. It is estimated that it will take approximately 400-500 staff hours to prepare the greenhouse gas emissions inventory for county operations. The project coordinator will oversee this activity. Staff has yet to analyze the amount of time needed to complete the remaining milestones. A draft resolution supporting participation in ICLEI and undertaking the five key performance milestones has been provided for the Board's consideration (Attachment #6). Attachment #7 is a list of current United States local governments participating in the CCP program.

Florida Green Building Coalition (FGBC): Green Local Government Designation Standard
During the August 22, 2006 workshop, the Board directed staff to continue to pursue learning opportunities for smart energy strategies. Since then, staff learned of the FGBC's Green Local Government Design Standards. The Florida Green Local Government Standard designates Green Cities and Green Counties for outstanding environmental stewardship. It is expected that certified green city and county governments will not only gain recognition and publicity, but also function in a more efficient manner through better internal communication, dollar savings, and effective risk and asset management. Staff contacted FGBC and learned that Pinellas County and the city of St. Petersburg have been certified under the program.

There are seven steps to becoming a "Florida Green Local Government."

1. Learn about the Florida Green Local Government Standard.
2. Designate an office, department, or individual as Project Coordinator.
3. Determine what criteria apply to the local government.
4. Conduct a local government assessment review in cooperation with departments.
5. Conduct a local government evaluation.
6. Schedule implementation meeting to outline path towards qualification.
7. Submit application and all necessary documentation to FGBC, Inc. for evaluation.

If not all credit points that qualify the local government for the designation have been incorporated (Attachment #8), and credit points have been awarded based on documentation of intent to incorporate certain strategies in the near future, the local government earns the "Registered" designation. The local government has three years after achieving the "Registered" designation to obtain one of the "Certified" levels. The certification is good for a period of five years. At the end of the five years, in order to remain certified, the local government must submit a new application to the Florida Green Local Government Standard Program. The application fee for joining this program is \$4,500. Certification is an involved process that would require significant commitment of staff resources to undertake and additional funding. Staff is assessing the feasibility of pursuing such certification particularly in light of anticipated decreases in funding as a result of property tax legislation.

Updates to August 22, 2006 Smart Energy Strategies Workshop – The Board conducted a workshop on August 22, 2006 and adopted 15 conservation strategies, which it subsequently ratified on September 12, 2006. Updates relevant to each strategy are provided in Attachment #9.

Options:

1. Accept this report regarding green buildings, the Florida State University's (FSU) Off-Grid Zero Emissions Building and an update on the energy conservation strategies the Board approved at its August 22, 2006 workshop.
2. Direct staff to continue to pursue "green" building design according to one or more high performance green building rating systems in new construction.
3. Direct staff to pursue membership in ICLEI with voter designee as directed by the Board.
4. Approve a resolution that commits to achieving ICLEI's Cities for Climate Protection Campaign Five Milestones, subject to continued funding.
5. Do not accept this report.

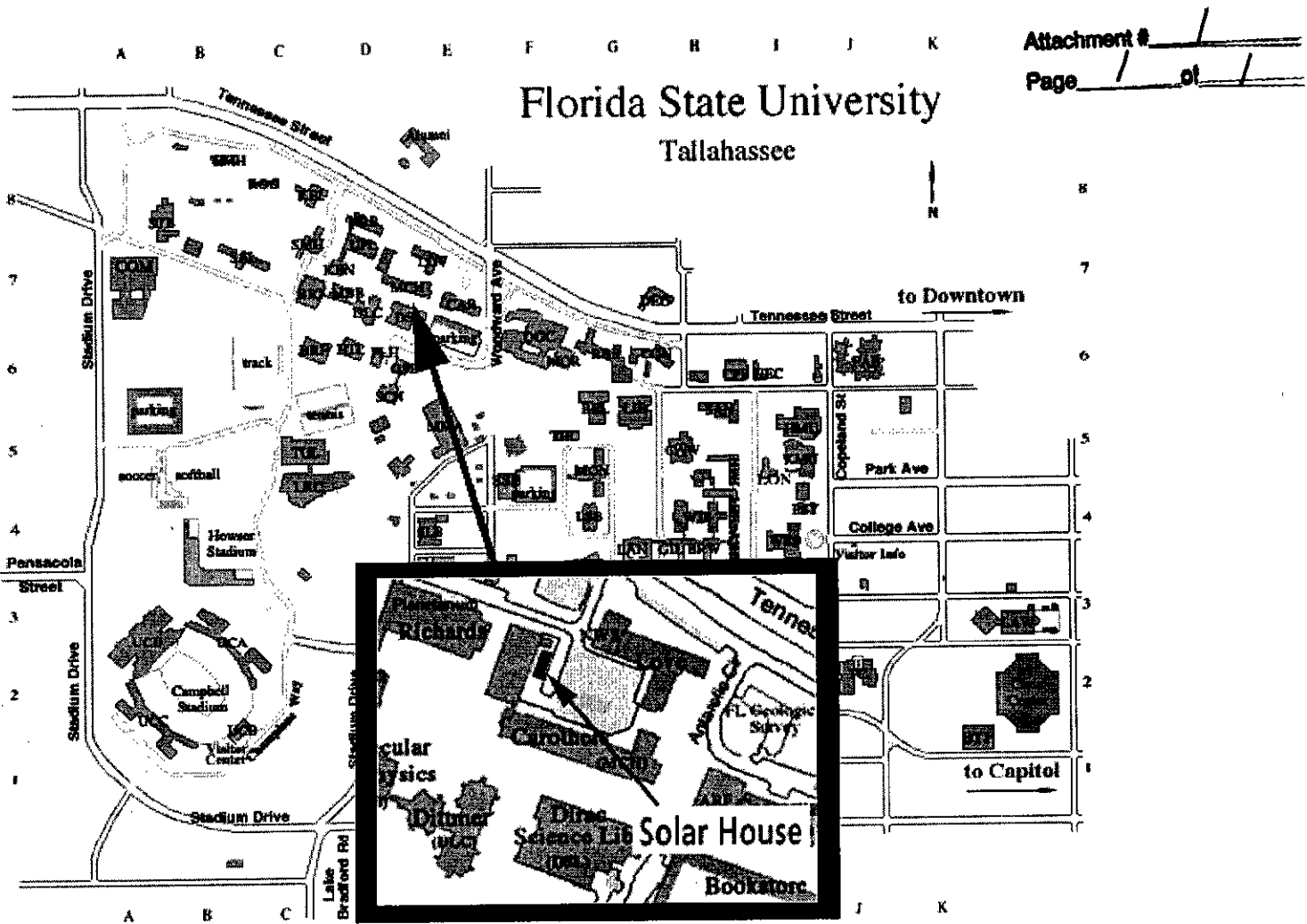
6. Do not direct staff to continue to pursue "green" building design according to one or more high performance green building rating systems.
7. Do not direct staff to pursue membership in ICLEI.
8. Do not approve a resolution that commits to achieving ICLEI's Cities for Climate Protection Campaign's Five Milestones.
9. Board Direction.

Recommendation:

Options #1, #2, #3, #4.

Attachments:

1. Map of Florida State University's (FSU) Off-Grid Zero Emissions Building (OGZEB)
2. Leadership in Energy and Environmental Design (LEED) for New Construction v2.2 Registered Project Checklist
3. Florida Green Building Coalition (FGBC) Green Commercial Building Designation Standard Checklist
4. Green Globes Design Point System
5. International Council for Local Environment Initiatives (ICLEI) Application
6. Resolution supporting participation in ICLEI and undertaking the Cities for Climate Protection (CCP) Campaign Five Milestones
7. List of current US local governments participating in the CCP Program
8. Florida Green Local Government Standard Filter Tool
9. August 22, 2006 Smart Energy Strategies Workshop Updates





LEED for New Construction v2.2 Registered Project Checklist

Attachment # 2
Page 1 of 2

Project Name:
Project Address:

TYPICAL BRANCH LIBRARY
LEON COUNTY, FLORIDA

Yes ? No

0 2 2 Sustainable Sites **14 Points**

Y	Prereq 1	Construction Activity Pollution Prevention	Required
<input type="checkbox"/>	Credit 1	Site Selection	1
<input type="checkbox"/>	Credit 2	Development Density & Community Connectivity	1
<input type="checkbox"/>	Credit 3	Brownfield Redevelopment	1
<input type="checkbox"/>	Credit 4.1	Alternative Transportation, Public Transportation Access	1
<input type="checkbox"/>	Credit 4.2	Alternative Transportation, Bicycle Storage & Changing Rooms	1
<input type="checkbox"/>	Credit 4.3	Alternative Transportation, Low-Emitting & Fuel-Efficient Vehicles	1
<input type="checkbox"/>	Credit 4.4	Alternative Transportation, Parking Capacity	1
<input type="checkbox"/>	Credit 5.1	Site Development, Protect or Restore Habitat	1
<input type="checkbox"/>	Credit 5.2	Site Development, Maximize Open Space	1
<input type="checkbox"/>	Credit 6.1	Stormwater Design, Quantity Control	1
<input type="checkbox"/>	Credit 6.2	Stormwater Design, Quality Control	1
<input type="checkbox"/>	Credit 7.1	Heat Island Effect, Non-Roof	1
<input type="checkbox"/>	Credit 7.2	Heat Island Effect, Roof	1
<input type="checkbox"/>	Credit 8	Light Pollution Reduction	1

Yes ? No

4 1 Water Efficiency **5 Points**

<input type="checkbox"/>	Credit 1.1	Water Efficient Landscaping, Reduce by 50%	1
<input type="checkbox"/>	Credit 1.2	Water Efficient Landscaping, No Potable Use or No Irrigation	1
<input type="checkbox"/>	Credit 2	Innovative Wastewater Technologies	1
<input type="checkbox"/>	Credit 3.1	Water Use Reduction, 20% Reduction	1
<input type="checkbox"/>	Credit 3.2	Water Use Reduction, 30% Reduction	1

9 1 Energy & Atmosphere **17 Points**

Y	Prereq 1	Fundamental Commissioning of the Building Energy Systems	Required
Y	Prereq 2	Minimum Energy Performance	Required
Y	Prereq 3	Fundamental Refrigerant Management	Required
<input type="checkbox"/>	Credit 1	Optimize Energy Performance	1 to 10
<input type="checkbox"/>		10.5% New Buildings or 3.5% Existing Building Renovations	1
<input type="checkbox"/>		14% New Buildings or 7% Existing Building Renovations	2
<input type="checkbox"/>		17.5% New Buildings or 10.5% Existing Building Renovations	3
<input type="checkbox"/>		21% New Buildings or 14% Existing Building Renovations	4
<input type="checkbox"/>		24.5% New Buildings or 17.5% Existing Building Renovations	5
<input type="checkbox"/>		28% New Buildings or 21% Existing Building Renovations	6
<input type="checkbox"/>		31.5% New Buildings or 24.5% Existing Building Renovations	7
<input type="checkbox"/>		35% New Buildings or 28% Existing Building Renovations	8
<input type="checkbox"/>		38.5% New Buildings or 31.5% Existing Building Renovations	9
<input type="checkbox"/>		42% New Buildings or 35% Existing Building Renovations	10
<input type="checkbox"/>	Credit 2	On-Site Renewable Energy	1 to 3
<input type="checkbox"/>		2.5% Renewable Energy	1
<input type="checkbox"/>		7.5% Renewable Energy	2
<input type="checkbox"/>		12.5% Renewable Energy	3
<input type="checkbox"/>	Credit 3	Enhanced Commissioning	1
<input type="checkbox"/>	Credit 4	Enhanced Refrigerant Management	1
<input type="checkbox"/>	Credit 5	Measurement & Verification	1
<input type="checkbox"/>	Credit 6	Green Power	1

continued...

Yes ? No

5 5 3

Materials & Resources

13 Points

Y	Prereq 1	Storage & Collection of Recyclables	Required
	Credit 1.1	Building Reuse, Maintain 75% of Existing Walls, Floors & Roof	1
	Credit 1.2	Building Reuse, Maintain 100% of Existing Walls, Floors & Roof	1
	Credit 1.3	Building Reuse, Maintain 50% of Interior Non-Structural Elements	1
	Credit 2.1	Construction Waste Management, Divert 50% from Disposal	1
	Credit 2.2	Construction Waste Management, Divert 75% from Disposal	1
	Credit 3.1	Materials Reuse, 5%	1
	Credit 3.2	Materials Reuse, 10%	1
	Credit 4.1	Recycled Content, 10% (post-consumer + ½ pre-consumer)	1
	Credit 4.2	Recycled Content, 20% (post-consumer + ½ pre-consumer)	1
	Credit 5.1	Regional Materials, 10% Extracted, Processed & Manufactured Region	1
	Credit 5.2	Regional Materials, 20% Extracted, Processed & Manufactured Region	1
	Credit 6	Rapidly Renewable Materials	1
	Credit 7	Certified Wood	1

Yes ? No

12 2 1

Indoor Environmental Quality

15 Points

Y	Prereq 1	Minimum IAQ Performance	Required
Y	Prereq 2	Environmental Tobacco Smoke (ETS) Control	Required
	Credit 1	Outdoor Air Delivery Monitoring	1
	Credit 2	Increased Ventilation	1
	Credit 3.1	Construction IAQ Management Plan, During Construction	1
	Credit 3.2	Construction IAQ Management Plan, Before Occupancy	1
	Credit 4.1	Low-Emitting Materials, Adhesives & Sealants	1
	Credit 4.2	Low-Emitting Materials, Paints & Coatings	1
	Credit 4.3	Low-Emitting Materials, Carpet Systems	1
	Credit 4.4	Low-Emitting Materials, Composite Wood & Agrifiber Products	1
	Credit 5	Indoor Chemical & Pollutant Source Control	1
	Credit 6.1	Controllability of Systems, Lighting	1
	Credit 6.2	Controllability of Systems, Thermal Comfort	1
	Credit 7.1	Thermal Comfort, Design	1
	Credit 7.2	Thermal Comfort, Verification	1
	Credit 8.1	Daylight & Views, Daylight 75% of Spaces	1
	Credit 8.2	Daylight & Views, Views for 90% of Spaces	1

Yes ? No

3 2

Innovation & Design Process

5 Points

	Credit 1.1	Innovation in Design: Provide Specific Title	1
	Credit 1.2	Innovation in Design: Provide Specific Title	1
	Credit 1.3	Innovation in Design: Provide Specific Title	1
	Credit 1.4	Innovation in Design: Provide Specific Title	1
	Credit 2	LEED® Accredited Professional	1

Yes ? No

43 13 6

Project Totals (pre-certification estimates)

69 Points

Certified: 26-32 points, Silver: 33-38 points, Gold: 39-51 points, Platinum: 52-69 points

FGBC Green Commercial Building Designation Standard Checklist

SCHEDULE A - Version 1.0, June 2004

Points Achieved		Project Name: TYPICAL BRANCH LIBRARY			
Points Targeted		Designated Professional:			
Points Questionable		100 Total Possible FGBC Green Commercial Building Designation Standard Points			
Points Not Targeted or Not Possible					
Certified = Minimum of 50 Points Achieved					
A	T	Q	N		
Category 1 : ENERGY 3 Points Minimum					
			Possible Points 23		
			Brief Description		
X			Prereq 1	Fundamental Building Systems Commissioning	Requires a Basic Owner / MEP / Contractor Commissioning Plan at the end of construction
X			Prereq 2	Minimum Energy Performance, 10% more efficient than Code	Requires a project design to be 10% better than the current Florida Code
X			Prereq 3	CFC Reduction in HVAC&R Equipment	Requires that all building HVAC&R systems be free of CFC's
X			Credit 1.1	Energy Performance, 15% New / 5% Existing	1 Provide a design that is 15% more efficient than FL Code
X			Credit 1.2	Energy Performance, 20% New / 10% Existing	1 Provide a design that is 20% more efficient than FL Code (Credits are cumulative - 2 points are awarded)
X			Credit 1.3	Energy Performance, 25% New / 15% Existing	1 Provide a design that is 25% more efficient than FL Code (Credits are cumulative - 3 points are awarded)
X			Credit 1.4	Energy Performance, 30% New / 20% Existing	1 Provide a design that is 30% more efficient than FL Code (Credits are cumulative - 4 points are awarded)
			Credit 1.5	Energy Performance, 35% New / 25% Existing	1 Provide a design that is 35% more efficient than FL Code (Credits are cumulative - 5 points are awarded)
			Credit 1.6	Energy Performance, 40% New / 30% Existing	1 Provide a design that is 40% more efficient than FL Code (Credits are cumulative - 6 points are awarded)
			Credit 1.7	Energy Performance, 45% New / 35% Existing	1 Provide a design that is 45% more efficient than FL Code (Credits are cumulative - 7 points are awarded)
			Credit 1.8	Energy Performance, 50% New / 40% Existing	1 Provide a design that is 50% more efficient than FL Code (Credits are cumulative - 8 points are awarded)
			Credit 1.9	Energy Performance, 55% New / 45% Existing	1 Provide a design that is 55% more efficient than FL Code (Credits are cumulative - 9 points are awarded)
			Credit 1.10	Energy Performance, 60% New / 50% Existing	1 Provide a design that is 60% more efficient than FL Code (Credits are cumulative - 10 points are awarded)
			Credit 1.11	Energy Performance, 65% New / 55% Existing	1 Provide a design that is 65% more efficient than FL Code (Credits are cumulative - 11 points are awarded)
			Credit 1.12	Energy Performance, 70% New / 60% Existing	1 Provide a design that is 70% more efficient than FL Code (Credits are cumulative - 12 points are awarded)
X			Credit 2.1	Renewable Energy, 5%	1 Provide 5% of the total building energy budget from renewable energy sources
X			Credit 2.2	Renewable Energy, 10%	1 Provide 10% of the total building energy budget w/ renewable sources (Credits are cumulative - 2 points are awarded)
			Credit 2.3	Renewable Energy, 15%	1 Provide 15% of the total building energy budget w/ renewable sources (Credits are cumulative - 3 points are awarded)
			Credit 2.4	Renewable Energy, 20%	1 Provide 20% of the total building energy budget w/ renewable sources (Credits are cumulative - 4 points are awarded)
X			Credit 3	Additional Commissioning	1 Requires a certified commissioning agent to review design, construction, and operations
X			Credit 4	Ozone Depletion, HCFC Free HVAC&R Equipment	1 Requires that all building HVAC&R systems be free of HCFC's and Halons
X			Credit 5	Measurement & Verification	2 Requires point monitoring of building systems and loads on all major equipment to provide data on Operations and Maintenance
X			Credit 6.1	Green Power, 25%	1 Owner shall purchase 25% certified green power for one year
X			Credit 6.2	Green Power, 50%	1 Owner shall purchase 50% certified green power for one year (Credits are cumulative - 2 points are awarded)
			Credit 6.3	Green Power, 75%	1 Owner shall purchase 75% certified green power (Credits are cumulative - 3 points are awarded)

FGBC Green Commercial Building Designation Standard Checklist

SCHEDULE A - Version 1.0, June 2004

<input type="checkbox"/> Points Achieved <input type="checkbox"/> Points Targeted <input type="checkbox"/> Points Questionable <input type="checkbox"/> Points Not Targeted or Not Possible	Project Name: Designated Professional: <div style="text-align: center; border: 1px solid black; padding: 5px;">100 Total Possible FGBC Green Commercial Building Designation Standard Points</div>
Certified = Minimum of 50 Points Achieved	

A	T	Q	N	Category 2 : WATER 3 Points Minimum	Possible Points	12	Brief Description
				Prereq 1 Drought Tolerant Landscape, 25%			Landscape comprised of a minimum of 25% of Drought Tolerant Plants
				Credit 1.1 Drought Tolerant Landscape, 50%	1		Landscape comprised of a minimum of 50% of Drought Tolerant Plants
				Credit 1.2 Drought Tolerant Landscape, 75%	1		Landscape comprised of a minimum of 75% of Drought Tolerant Plants (Credits are cumulative - 2 points are awarded)
				Credit 1.3 Drought Tolerant Landscape, 100%	1		Landscape comprised of a minimum of 100% of Drought Tolerant Plants (Credits are cumulative - 3 points are awarded)
				Credit 2.1 Water Efficient Irrigation, Reduce Potable Water Use for 50% of area	1		Reduce potable water consumption for irrigation on 50% of area irrigated
				Credit 2.2 Water Efficient Irrigation, Reduce Potable Water Use for 75% of area	1		Reduce potable water consumption for irrigation on 75% of area irrigated (Credits are cumulative - 2 points are awarded)
				Credit 2.3 Water Efficient Irrigation, No Potable Use or No Permanent Irrigation	1		Irrigation system to use no potable water or have no permanent system (Credits are cumulative - 3 points are awarded)
				Credit 3.1 Innovative Wastewater Technologies, 25%	1		Reduce Potable water usage 25% in flush fixtures.
				Credit 3.2 Innovative Wastewater Technologies, 50%	1		Reduce Potable water usage 50% in flush fixtures. (Credits are cumulative - 2 points are awarded)
				Credit 3.3 Innovative Wastewater Technologies, 75%	1		Reduce Potable water usage 75% in flush fixtures. (Credits are cumulative - 3 points are awarded)
				Credit 4.1 Water Use Reduction, 20% Reduction	1		Reduce water budget of the building by 20%
				Credit 4.2 Water Use Reduction, 30% Reduction	1		Reduce water budget of the building by 30% (Credits are cumulative - 2 points are awarded)
				Credit 4.3 Water Use Reduction, 40% Reduction	1		Reduce water budget of the building by 40% (Credits are cumulative - 3 points are awarded)

FGBC Green Commercial Building Designation Standard Checklist

SCHEDULE A - Version 1.0, June 2004

Points Achieved Points Targeted Points Questionable Points Not Targeted or Not Possible		Project Name: Designated Professional: 100 Total Possible FGBC Green Commercial Building Designation Standard Points					
Certified = Minimum of 50 Points Achieved							
A	T	Q	N	Category 3 : SITE 3 Points Minimum	Possible Points	14	Brief Description
X				Prereq 1	Erosion & Sedimentation Control		Exceed Florida Water Management District Standards
	X			Credit 1	Site Selection	1	Do not develop on: Prime farmland, Flood prone areas, habitat for threatened species, 100ft of Wetland, Public Parkland
		X		Credit 2	Development Density	1	Any type of In-Fill Development
		X		Credit 3	Brownfield Redevelopment	1	Development of any EPA Classified Brownfield
X				Credit 4.1	Alternative Transportation, Public Transportation Access	1	Projects need to be within a minimum of 1/2 mile of one Rail node or 1/4 mile of 1 or more bus lines
X				Credit 4.2	Alternative Transportation, Bicycle Storage & Changing Rooms	1	Project must provide securing locations for bicyclers and showering and changing rooms for 5% of total occupants
X				Credit 4.3	Alternative Transportation, Alternative Fuel Refueling Stations	1	Provide preferred parking for 3% of the parking capacity for the use of alternate fuel vehicles: Including Hybrid Vehicles
	X			Credit 4.4	Alternative Transportation, Parking Capacity	1	Do not exceed the minimum zoning parking requirements
	X			Credit 5.1	Reduced Site Disturbance, Protect or Restore Open Space	1	Limit site disturbance to 40 feet beyond the building perimeter
X				Credit 5.2	Reduced Site Disturbance, Development Footprint	1	Exceed minimum zoning requirements for open space by 25%
	X			Credit 6.1	Stormwater Management, Rate and Quantity	1	No net increase in Stormwater runoff from pre-development conditions to post-development
X				Credit 6.2	Stormwater Management, Treatment	1	Provide onsite treatment of stormwater to remove 80% of (TSS) Total Suspended Solids and 40% of (TP) Total Phosphorous
X				Credit 7.1	Reduction of Heat Islands, Non-Roof	1	Provide onsite measures to reduce Heat Island effects
X				Credit 7.2	Reduction of Heat Islands, Roof	1	Provide either a Green Roof (50% of roof area) or Energy Star Certified Roofing material (75% of roof area)
	X			Credit 8	Light Pollution Reduction	1	Meet or provide lower light levels than those recommended by the Illuminating Engineering Society of North America (IESNA)

FGBC Green Commercial Building Designation Standard Checklist

SCHEDULE A - Version 1.0, June 2004

<input type="checkbox"/> Points Achieved <input type="checkbox"/> Points Targeted <input type="checkbox"/> Points Questionable <input type="checkbox"/> Points Not Targeted or Not Possible		Project Name: _____ Designated Professional: _____ 100 Total Possible FGBC Green Commercial Building Designation Standard Points					
Certified = Minimum of 50 Points Achieved							
A	T	Q	N	Category 4: HEALTH 5 Points Minimum	Possible Points	20	Brief Description
X				Prereq 1	Environmental Tobacco Smoke (ETS) Control		No smoking allowed in the building
X				Credit 1	Carbon Dioxide (CO ₂) Monitoring	1	Systems shall be designed to monitor (CO ₂) within the building
	X			Credit 2	Increased Ventilation Effectiveness	1	Building system shall be designed to create an air change effectiveness greater than or equal to 0.9 by ASHRAE
X				Credit 3.1	Construction IAQ Management Plan, During Construction	2	Indoor Environmental Quality shall be protected during construction according to SMACNA guidelines
X				Credit 3.2	Construction IAQ Management Plan, Before Occupancy	1	Prior to occupancy the project will provide 100% outside air for two weeks or conduct an EPA IAQ Test
X				Credit 4.1	Low-Emitting Materials, Adhesives & Sealants	1	All Adhesives and Sealants shall meet VOC limits
X				Credit 4.2	Low-Emitting Materials, Paints	1	All Paints shall meet VOC limits
X				Credit 4.3	Low-Emitting Materials, Carpet	1	All carpet and carpet products shall meet the Carpet & Rug Institute Green Label Certification Program
X				Credit 4.4	Low-Emitting Materials, Composite Wood	1	All composite wood and agrifiber products will contain no added urea-formaldehyde
X				Credit 4.5	Low-Emitting Materials, Insulation	1	All Insulation products will be free of formaldehyde
X				Credit 4.6	Low-Emitting Materials, Environmentally Friendly Maintenance	1	Owner shall maintain the property utilizing environmentally friendly cleaning products
X				Credit 5	Indoor Chemical & Pollutant Source Control	1	Project shall employ measures to reduce pollutant contamination in the building entrances and housekeeping areas
X				Credit 6.1	Controllability of Systems, Perimeter Spaces	1	Provide minimum of one operable window and one lighting control zone per 200 SF for all areas within 15 ft of perimeter
	X			Credit 6.2	Controllability of Systems, Non-Perimeter Spaces	1	Provide 50% of all occupants individual control of airflow, temperature, and lighting.
X				Credit 7.1	Thermal Comfort, Comply with ASHRAE 55-1992	1	Comply with ASHRAE Standard 55-1992, Addenda 1995, for thermal comfort standards including humidity control
X				Credit 7.2	Thermal Comfort, Dehumidification System	1	Provide a central dehumidification system
X				Credit 8.1	Daylight, Daylight 50% of Spaces	1	Provide natural daylighting to 50% of interior spaces
	X			Credit 8.2	Daylight, Daylight 75% of Spaces	1	Provide natural daylighting to 75% of interior spaces (Credits are cumulative - 2 points are awarded)
X				Credit 9.1	Views, Views for 50% of Spaces	1	Provide views to vision glazing for 50% of all occupants
X				Credit 9.2	Views, Views for 75% of Spaces	1	Provide views to vision glazing for 75% of all occupants (Credits are cumulative - 2 points are awarded)

FGBC Green Commercial Building Designation Standard Checklist

SCHEDULE A - Version 1.0, June 2004

<input type="checkbox"/> Points Achieved <input type="checkbox"/> Points Targeted <input type="checkbox"/> Points Questionable <input type="checkbox"/> Points Not Targeted or Not Possible		Project Name: Designated Professional: 100 Total Possible FGBC Green Commercial Building Designation Standard Points					
Certified = Minimum of 50 Points Achieved							
A	T	Q	N	Category 5 : MATERIALS 3 Points Minimum	Possible Points	15	Brief Description
X				Prereq 1			Project must have infrastructure for recycling: paper, cardboard, glass, plastics, and metal
	X			Credit 1.1		1	Renovation project shall maintain 75% of existing Shell (not including windows & doors)
	X			Credit 1.2		1	Renovation project shall maintain 100% of existing Shell (not including windows & doors)
	X			Credit 1.3		1	Renovation project shall maintain 100% of existing Shell and 50% non-shell (not including windows & doors)
X				Credit 2.1		1	Project must divert a minimum of 50% of all waste from landfill
	X			Credit 2.2		1	Project must divert a minimum of 75% of all waste from landfill (Credits are cumulative - 2 points are awarded)
X				Credit 3.1		1	Incorporate 5% (based on cost) salvaged or refurbished materials
	X			Credit 4.1		1	Incorporate 25% (based on material cost) recycled materials
	X			Credit 4.2		1	Incorporate 50% (based on material cost) recycled materials (Credits are cumulative - 2 points are awarded)
X				Credit 5		1	Incorporate 10% (based on material cost) recyclable materials (recyclable through a structured existing program)
	X			Credit 6		1	Incorporate 50% demountable and adaptable Interior walls (based on LF)
	X			Credit 7		1	Project to lease 50% of floor coverings from a manufacturer that reclaims the materials into another useful life cycle
X				Credit 8.1		1	Project to purchase 20% (based on cost) of materials from a 700 mile radius from project site
				Credit 8.2		1	Project to purchase 50% of the above mentioned materials that are harvested, extracted, recovered within 700 miles
X				Credit 9		1	Project to purchase 5 % (based on cost) of all building materials to be rapidly renewable (plant to harvest cycle <10 years)
	X			Credit 10		1	Project to purchase 50% (based on cost) of all wood products certified by the Forest Stewardship Council (FSC)
X				Credit 11		1	Use exterior systems capable of withstanding the moisture and heat impacts of the local climate for a period of 40 years
X				Credit 12		1	Use interior and exterior finish materials that require none or minimal periodic cleaning

FGBC Green Commercial Building Designation Standard Checklist

SCHEDULE A - Version 1.0, June 2004

Points Achieved		Project Name:	
Points Targeted		Designated Professional:	
Points Questionable		100 Total Possible FGBC Green Commercial Building Designation Standard Points	
Points Not Targeted or Not Possible			
Certified = Minimum of 50 Points Achieved			
Category 6 : DISASTER MITIGATION 2 Points Minimum		Possible Points	5
A	T	Q	N
X			
Credit 1	Hurricane, Impact Resistance of Openings		1
X			
Credit 2	Flood, Slab Elevation		1
X			
Credit 3	Wildfire, Fire Resistant Exterior Finishes		1
X			
Credit 4.1	Termite Prevention		1
X			
Credit 4.2	Termite, Non Toxic Termite Pretreatment		1
Category 7 : GENERAL 2 Points Minimum		Possible Points	11
A	T	Q	N
X			
Prereq 1	FGBC Designated Professional		
X			
Prereq 2	Project Charrette: Owner & Architect,		
X			
Credit 1	Project Charrette: Owner, Architect, CM, Engineers & Users,		2
X			
Credit 2	Environmental Value Analysis, Cost & Environmental Impact of Each Credit		1
X			
Credit 3.1	Environmental Innovation		1
X			
Credit 3.2	Environmental Innovation		1
X			
Credit 3.3	Environmental Innovation		1
X			
Credit 3.4	Environmental Innovation		1
X			
Credit 3.5	Environmental Innovation		1
X			
Credit 3.6	Environmental Innovation		1
X			
Credit 3.7	Environmental Innovation		1
X			
Credit 3.8	Environmental Innovation		1

SUMMARY

POINTS AVAILABLE

POINTS TARGETED

POINTS QUESTIONABLE

	ENERGY	WATER	SITE	HEALTH	MATERIALS	DISASTER	GENERAL	TOTAL
POINTS AVAILABLE	23	12	14	20	15	5	11	100
POINTS TARGETED	10	6	7	16	7	4	6	56
POINTS QUESTIONABLE	2	3	5	4	6	1	1	22

50
REQ'D

The Green Globes Design Points System

Percentage Score	Points Score	Areas and Sub-Areas of Assessment
5%	50	A - Project Management
	20	A.1 - Integrated design process
	10	A.2 - Environmental purchasing (including energy efficient products)
	15	A.3 - Commissioning
	5	A.4 - Emergency response plan
11.5%	115	B - Site
	30	B.1 - Development area (site selection, development density, site remediation)
	30	B.2 - Ecological impacts (native planting and vegetation, heat islands, night sky)
	20	B.3 - Watershed features (site grading, stormwater management, pervious cover, rainwater capture)
	35	B.4 - Site ecology enhancement
38%	380	C - Energy
	100	C.1 - Energy performance
	114	C.2 - Reduced energy demand (space optimization, microclimatic response to site, day-lighting, envelope design, metering)
	66	C.3 - Integration of energy efficient systems
	20	C.4 - Renewable energy sources (on-site renewable energy technologies)
	80	C.5 - Energy-efficient transportation (public transportation, cycling facilities)
8.5%	85	D - Water
	30	D.1 - Water performance
	45	D.2 - Water conserving features (sub-metering, devices, cooling towers, landscaping and irrigation strategies)
	10	D.3 - On-site treatment of water (greywater system, on-site wastewater treatment)
10%	100	E - Resources
	40	E.1 - Low impact systems and materials (selection of building materials based on the low environmental impact)
	15	E.2 - Minimal consumption of resources (reused, recycled, local, low-maintenance materials, certified wood)
	15	E.3 - Reuse of existing buildings
	15	E.4 - Building durability, adaptability and disassembly
	5	E.6 - Reduction, reuse and recycling of demolition waste
	10	E.7 - Recycling and composting facilities
7%	70	F - Emissions, Effluents & Other Impacts
	15	F.1 - Air emissions (low emission burners)
	20	F.2 - Ozone depletion
	10	F.3 - Avoiding sewer and waterway contamination
	25	F.4 - Pollution minimization (storage tanks, PCBs, radon, asbestos, pest management, hazardous materials)
20%	200	G - Indoor Environment
	55	G.1 - Ventilation system (intakes, ventilation rates, delivery, CO ₂ monitoring, controls, parking areas, ease of maintenance)
	45	G.2 - Control of indoor pollutants (mould, AHU, humidification, Legionella cooling towers/ hot water, building materials, local exhaust)
	50	G.3 - Lighting (visual access, heights & depths of perimeter spaces, daylight factor, ballasts, glare, task lighting, controls)
	20	G.4 - Thermal comfort (thermal conditions meet ASHRAE 55)
	20	G.5 - Acoustic comfort (zoning, transmission, vibration control, acoustic privacy, reverberation, mechanical noise)
100%	1000	TOTAL POINTS AVAILABLE

Application for Membership

Jurisdiction Name	Leon County	State	Florida
Website	www.leoncountyfl.gov	Population	271,111
1. Name of elected official liaison		Title	County Commissioner
Address	301 South Monroe Street, 5 th Floor		
City	Tallahassee	State, ZIP	Florida, 32301
E-mail		Telephone	
Date last elected / Last day of term			
2. Name of staff liaison	John Ward	Title	Architect/Construction Manager
Address	1907 South Monroe Street		
City	Tallahassee	State, ZIP	Florida, 32301
E-mail	wardjoh@leoncountyfl.gov	Telephone	(850) 606-5000
Key Contact Person on ICLEI Matters (Check either Staff or Elected for each)		Staff	Elected
Voting		<input type="checkbox"/>	<input type="checkbox"/>
Regular contact		<input type="checkbox"/>	<input type="checkbox"/>
3. Name of press/media contact	Jennifer Meale	Title	Public Information Officer
Address	301 South Monroe Street, Suite 502		
City	Tallahassee	State, ZIP	Florida 32301
E-mail	mealej@leoncountyfl.gov	Telephone	(850) 606-5330
4. Name of person to receive invoice	John Ward	Title	Architect/Construction Manager
E-mail	wardjoh@leoncountyfl.gov	Telephone	(850) 606-5000
5. Name of person completing form	Roshaunda Perry	Title	Management Services Coordinator/Analyst
E-mail	perryr@leoncountyfl.gov	Telephone	(850)606-1712

Upon receipt of membership fees and an adopted program resolution, your jurisdiction will be considered a full ICLEI Member. All ICLEI Council Members are governed by the ICLEI Charter. A copy of the Charter will be sent to the primary contact indicated above.

Signature: _____

Date: _____

Please take a moment to complete the questions on the reverse side.

Please send completed form to:
ICLEI – Local Governments for Sustainability U.S.A.
436 14th Street, Suite 1520
Oakland, CA 94612

Telephone: (510) 844-0699
Fax: (510) 844-0698
E-mail: iclei-usa@iclei.org
Website: www.iclei.org/usa

Application for Membership

6. Please list other local governmental associations of which your local government is a member:

National Association of Counties
Florida Association of Counties (FAC)
Greater Tallahassee Chamber of Commerce
Apalachee Regional Planning Council
NorthWest Florida Water Management District

7. Please list any local governments that are twin or sister cities with your local government:

None

8. In general, how can ICLEI best help your local government with climate protection and sustainability goals?

We are just beginning to develop and implement climate protection initiatives. We have begun to address fleet economy and vehicles, methane recovery at the Solid Waste facility, energy savings in buildings, constructing "green" buildings, solar hot water and others.

ICLEI can assist Leon County by providing us with "best practices" of other locations, collecting of baseline data for the greenhouse gas inventory, ideas to effectively communicate the program objectives to the community, help with measuring progress and keeping us focused on the real purpose of improving our environment.

Please send completed form to:
ICLEI – Local Governments for Sustainability U.S.A.
436 14th Street, Suite 1520
Oakland, CA 94612

Telephone: (510) 844-0699
Fax: (510) 844-0698
E-mail: iclei-usa@iclei.org
Website: www.iclei.org/usa

Application for Membership

9. If you are a new member, how did you learn about ICLEI?

While doing research for a Workshop on Smart Energy Strategies, we discovered that ICLEI was an internationally recognized source of information regarding climate change and global warming.

Thank you for your interest in joining ICLEI – Local Governments for Sustainability.

Please send completed form to:
ICLEI – Local Governments for Sustainability U.S.A.
436 14th Street, Suite 1520
Oakland, CA 94612

Telephone: (510) 844-0699
Fax: (510) 844-0698
E-mail: iclei-usa@iclei.org
Website: www.iclei.org/usa

RESOLUTION: 2007-_____

A RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS OF LEON COUNTY,
FLORIDA, SUPPORTING PARTICIPATION IN THE INTERNATIONAL COUNCIL FOR
LOCAL ENVIRONMEMNTAL INITIATIVES (ICLEI)

WHEREAS, LEON COUNTY held a Workshop on Smart Energy Strategies on August
22, 2006; and

WHEREAS, LEON COUNTY committed to implement changes to reduce global
warming; and

WHEREAS, LEON COUNTY publicly declares its commitment to join ICLEI's Cities
for Climate Protection (CCP) campaign; and

WHEREAS, LEON COUNTY commits to undertaking five key performance milestones
using a proven methodology provide by ICLEI;

Milestone 1: Analyze greenhouse gas emission levels

Milestone 2: Set a reduction target

Milestone 3: Develop a Local Action Plan

Milestone 4: Implement the Local Action Plan

Milestone 5: Monitor the progress and report results; and

WHEREAS, local government actions to reduce greenhouse gas emissions and increase
energy efficiency, provide multiple local benefits; and

WHEREAS, in 2001, the National Academy of Sciences (NAS) reviewed and declared
global warming a real problem caused in part by the actions of humankind; and

WHEREAS, The International Panel on Climate Change concluded
that there is high confidence that recent regional changes in temperature have had discernible
impacts on many physical and biological systems,

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners of Leon County, Florida, that:

1. The Board of County Commissioners authorize the Chairman to join ICLEI, on behalf of Leon County, as a full member and participate in the Cities for Climate Protection (CCP) Campaign.

2. LEON COUNTY will undertake the Cities for Climate Protection Campaign's five milestones to reduce both greenhouse gas and air pollution emissions.

DONE AND ADOPTED by the Board of County Commissioners of Leon County, Florida, on this the 22nd day of May 2007.

LEON COUNTY, FLORIDA

BY: _____
C.E. DePuy, Jr., Chairman
BOARD OF COUNTY COMMISSIONERS

ATTEST:

BOB INZER, CLERK OF THE CIRCUIT COURT
LEON COUNTY, FLORIDA

BY: _____

APPROVED AS TO FORM:

OFFICE OF THE COUNTY ATTORNEY
LEON COUNTY, FLORIDA

BY: _____
Herbert W. A. Thiele
County Attorney

Below are the current US local governments participating in the CCP program.

Greater Northeast Region

Connecticut

- Bridgeport
- Central Connecticut Regional Planning Agency (CCRPA)
- Fairfield
- Hamden
- Hartford
- New Britain
- New Haven
- Plainville
- Stamford
- Weston
- Windham
- Windsor

Maine

- Augusta
- Farmington
- Portland

Massachusetts

- Amherst
- Arlington
- Barnstable
- Belmont
- Boston
- Brookline
- Cambridge
- Falmouth
- Gloucester
- Hull
- Lenox
- Lynn
- Medford
- Natick
- Newburyport
- Newton
- Northampton
- Pioneer Valley Planning Commission
- Pittsfield
- Reading

- Salem
- Shutesbury
- Somerville
- Springfield
- Watertown
- Williamstown
- Worcester

New Hampshire

- Keene
- Nashua

New Jersey

- Belmar
- Hamilton
- Maplewood
- Newark

New York

- Babylon
- Buffalo
- Cooperstown
- Greenburgh
- Huntington
- Ithaca
- Mount Vernon
- New Rochelle
- New York
- Saratoga Springs
- Schenectady County
- Oneonta
- Suffolk County
- Syracuse
- Tompkins County
- Westchester County

Rhode Island

- Pawtucket

- Providence

Vermont

- Brattleboro
- Burlington
- Chittenden County
- Middlebury
- Montpelier

Mid-Atlantic/Southeast Region

Arkansas

- Little Rock

Florida

- Alachua County
- Broward County
- Gainesville
- Hillsborough County
- Miami Beach
- Miami-Dade County
- Orange County
- Riviera Beach
- Tampa

Georgia

- Atlanta
- Decatur

Kentucky

- Louisville-Jefferson County Metro Government

Louisiana

- New Orleans

Maryland

- College Park
- Montgomery County
- Mount Rainier
- Prince George's County
- Takoma Park

North Carolina

- Carrboro
- Chapel Hill
- Durham
- Orange County

Pennsylvania

- Philadelphia
- Pittsburgh
- West Chester

South Carolina

- Charleston
- Georgetown

Tennessee

- Memphis

Virginia

- Arlington County

Upper Midwest Region

Illinois

- Chicago

Kansas

- Overland Park

Michigan

- Ann Arbor
- Delta County
- Washtenaw County

Minnesota

- Duluth
- Hennepin County
- Minneapolis
- Ramsey County
- Saint Paul

Ohio

- Toledo

Wisconsin

- Dane County
- Madison
- Milwaukee

Greater Southwest/Inter-Mountain Region

Arizona

- Mesa
- Tucson

Colorado

- Aspen
- Boulder
- Fort Collins
- Carbondale
- Denver

New Mexico

- Albuquerque
- Santa Fe

Texas

- Austin
- San Antonio

Utah

- Salt Lake City

Greater Northwest Region

Western Montana

- Missoula

Oregon

- Ashland
- Corvallis
- Multnomah County
- Portland

Washington

- Bellingham
- Burien
- King County
- Olympia
- Seattle
- Spokane
- Spokane County
- Tacoma

West Coast/Basin and Range Region

California

- Arcata
- Berkeley
- Chula Vista
- Cloverdale
- Cotati
- Davis
- Fairfax

- Healdsburg
- Los Angeles
- Marin County
- Marin Municipal Water District
- Novato
- Oakland
- Petaluma
- Rohnert Park
- Sacramento
- San Anselmo
- San Diego
- San Francisco
- San Jose
- Santa Cruz
- Santa Clara County
- Santa Monica
- Santa Rosa
- Sausalito
- Sebastopol
- Sonoma
- Sonoma County
- West Hollywood

Windsor

Hawaii

- Honolulu

Source: <http://www.iclei.org/index.php?id=1121>

Florida Green Local Government Standard Filter Tool

Use this sheet to create custom reports to facilitate tracking of progress or distribution of criteria lists to individuals or departments.

#	Energy & Air Water Waste Health Land Use Awareness						Credit Name	MPP	MAP	CPA
	E	A	W	W	H	L				
A1a	L						Write or re-write mission statement to include environmental commitment.	2	0	0
A1b	L						Incorporate the mission statement into the local government's comprehensive plan.	3	0	0
A2a	L	✓					Monitor and track local government energy use.	1	0	0
A2b	L	✓					Develop a local government energy reduction plan.	1	0	0
A2c	L		✓				Monitor and track local government water use.	1	0	0
A2d	L		✓				Develop a local government water reduction plan.	1	0	0
A2e	L			✓			Monitor and track local government solid waste generation/ recycling rates.	1	0	0
A2f	L			✓			Develop a local government solid/hazardous waste reduction plan.	1	0	0
A2g	L			✓	✓		Develop an EPP program for the local government.	1	0	0
A2h	L			✓	✓		Encourage EPP program implementation.	5	0	0
A3a	L	✓					Participate in Cities for Climate Protection Campaign.	1	0	0
A3b	L	✓					Alternative Fuel Vehicle purchase.	3	0	0
A4a	L						Become a member of FGBC.	1	0	0
A4b	L						Become a member of USGBC.	1	0	0
A4c	L	✓	✓	✓	✓	✓	Construct LEED or FGBC certified buildings or renovate for LEED EB or CI.	10	0	0
A4d	L	✓	✓	✓	✓		Employ green cleaning and maintenance procedures.	5	0	0
A5a	L						Maintain an office, person, or group to coordinate current and future green activities.	3	0	0
A6a	C	✓	✓	✓	✓	✓	Adopt an green standard as official minimum criteria for new govt. buildings.	10	0	0
A6b	C	✓	✓	✓	✓		Adopt green cleaning/maintenance practices available from DEP.	5	0	0
A6c	C		✓				Enact green landscaping ordinance for local government buildings.	1	0	0
A7a	E						Budget for publicity / education related to the govt's commitment to green.	1	0	0
A8a	E						Organize green building education for local government staff.	1	0	0
B1a	L		✓				Certified Florida friendly landscapes within the city/county.	10	0	0
B2a	C	✓	✓	✓	✓		Offer free or discounted green products to the public.	6	0	0
B3a	C		✓			✓	Offer incentives to create organic farms, or sustainable/water efficient agriculture.	5	0	0
B4a	E	✓	✓	✓	✓	✓	Offer green building or green local government education to the community.	1	0	0
B4b	E	✓	✓	✓	✓	✓	Provide green building or green local government education materials.	1	0	0
B4c	E		✓				Maintain active FY&N program or other home owner/builder/developer outreach program.	1	0	0
B4d	E						Maintain an active student/teacher education program.	1	0	0
B5a	E		✓				Offer promotion and education of water conservation within the agricultural sector.	1	0	0
B5b	E		✓			✓	Offer education on organic farming, permaculture and sustainable agriculture.	1	0	0
C1a	L						Create and maintain an electronic database of all building energy code compliance.	5	0	0
C1b	L						Create and maintain an electronic database of all green and energy ratings.	5	0	0
C2a	C						Adopt FGBC or LEED green standards as official green standards of the city/county.	2	0	0

Florida Green Local Government Standard Filter Tool

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Energy & Air Water Waste Health Land Use Awareness								MPP	MAP	CPA
#	EA	W	WH	LU	A	Credit Name				
C2b	C	✓	✓	✓	✓	✓	Offer an incentive(s) for FGBC or LEED certified commercial and institutional buildings.	4	0	0
C2c	C	✓	✓	✓	✓	✓	Offer an incentive(s) for FGBC or Energy Star certified green homes.	4	0	0
C2d	C	✓	✓	✓	✓	✓	Offer an incentive(s) for FGBC certified green developments.	4	0	0
C3a	C				✓		Require mitigation for consumption of natural habitat or resources.	5	0	0
C3b	C		✓		✓		Enact and enforce a tree preservation or land-clearing ordinance.	1	0	0
C3c	C	✓			✓		Regulate impervious parking surfaces.	1	0	0
C3d	C		✓				Enact a septic system replacement ordinance.	1	0	0
C4a	C		✓				Enact a rain sensor ordinance applicable to all functioning automatic irrigation systems.	1	0	0
C4b	C		✓				Enact a landscaping ordinance for new construction.	1	0	0
C5a	E					✓	Require key staff to complete approved course in green building on a bi-annual basis.	1	0	0
C6a	E					✓	Offer classes to industry that detail any green incentives or regulations present.	1	0	0
C6b	E					✓	Offer incentives for local professionals to attend green building classes offered by others.	1	0	0
C6c	E					✓	Conduct a green building awards program.	1	0	0
C7a	E					✓	Publicity and case studies for green building.	1	0	0
D1a	L					✓	Team with tourism department on eco-tourism campaign.	1	0	0
D1b	L					✓	Track amount of tourism that takes part in eco-related activities.	1	0	0
D2a	L	✓			✓	✓	Achieve Florida Main Street Designation.	1	0	0
D3a	C	✓	✓	✓	✓	✓	Incentives for location of green businesses within city/county.	1	0	0
D3b	C	✓	✓	✓	✓	✓	Offer special promotion for local eco-hotels.	1	0	0
D4a	C				✓		Incentives for green redevelopment.	2	0	0
D5a	C				✓	✓	Develop a historic preservation ordinance.	1	0	0
D5b	C				✓	✓	Develop funding mechanism to aid with historic preservation.	1	0	0
E1a	L	✓					Use of AFV and/or bicycle patrol for urban/neighborhood areas.	1	0	0
E1b	L	✓					Use renewable energy as backup / emergency power.	1	0	0
E2a	L	✓		✓			Maintain green fleets.	3	0	0
E2b	L			✓			Firing ranges utilize non-lead bullets or trap and collect fragments.	1	0	0
E2c	L		✓	✓			Minimize photo-processing waste.	1	0	0
E3a	L		✓				Fire departments review training operations and conserve water where appropriate.	1	0	0
E4a	C			✓			Incentives for disaster mitigation.	1	0	0
E5a	E			✓		✓	Offer mitigation audits to homes, businesses, and local government buildings.	1	0	0
E5b	E					✓	Create an education campaign for mitigation.	1	0	0
E6a	E					✓	Police trained in crime prevention through environmental design.	1	0	0
E6b	E				✓	✓	Public safety staff attend training on Healthy Street design.	1	0	0
F1a	L	✓	✓	✓	✓		Offer green power.	1	0	0

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#	Energy & Air Water Waste Health Land Use Awareness						Credit Name	MPP	MAP	CPA
	EA	W	W	H	LU	A				
F1b	L					✓	Certify renewable electricity products under Center for Resource Solutions.	1	0	0
F1c	L					✓	Voluntary funding of green power through customer billing.	1	0	0
F1d	L					✓	Become an Energy Star ally.	1	0	0
F2a	L		✓				Actively promote fly ash / blast furnace slag source.	1	0	0
F2b	L		✓				Utilize recycled billing envelopes.	1	0	0
F2c	L		✓				Enable customers to make online bill payments.	1	0	0
F3a	C	✓					Offer distributed generation incentives.	1	0	0
F3b	C	✓				✓	Offer energy audits.	1	0	0
F3c	C	✓					Commercial building incentives.	1	0	0
F3d	C	✓					Residential building incentives.	1	0	0
F3e	C	✓				✓	Rate structures based on consumption.	1	0	0
F4a	E					✓	Informative billing.	1	0	0
F4b	E					✓	Take part in any speakers bureau or sponsor workshops.	1	0	0
F4c	E					✓	Emissions info posted on website.	1	0	0
F4d	E					✓	Enable customers to track and analyze their usage via the internet.	1	0	0
F5a	E					✓	Send appropriate staff for training related to distributed generation.	1	0	0
F5b	E					✓	Send appropriate staff for energy audit training.	1	0	0
G1a	L	✓	✓	✓	✓		Construct/renovate green buildings	20	0	0
G2a	C	✓	✓	✓	✓	✓	Affordable housing constructed by city/county and other parties mandated green.	1	0	0
G2b	C	✓	✓	✓	✓	✓	Offer incentives for construction of green affordable housing.	1	0	0
G2c	C	✓			✓	✓	Offer incentives for location efficient affordable housing.	1	0	0
G3a	C	✓	✓	✓	✓		Remodeling of affordable housing mandated green.	1	0	0
G4a	E	✓	✓	✓	✓	✓	Offer orientation classes for residents of affordable housing or refer to existing courses.	1	0	0
G5a	E		✓			✓	Applicable staff complete CEU approved course in green building on a bi-annual basis.	1	0	0
H1a	C	✓			✓		Alternative commuting incentives for local government employees.	2	0	0
H2a	C			✓		✓	Provide reusable mug / water bottle to all employees.	1	0	0
H3a	E					✓	New employee orientation includes general city/county commitment to environment.	1	0	0
H3b	E					✓	Conduct or refer to special training on one or more green city/county programs.	5	0	0
I1a	L			✓			Operate local government computer and equipment reuse center	1	0	0
I1b	L			✓			Recycling of end-of-life electronic equipment	1	0	0
I2a	C	✓				✓	Enact local government policy so all computer/ancillary equipment is off when not in use	1	0	0
I2b	C	✓				✓	Enact policy so all computer electronic equipment purchased has conservation features	1	0	0
I3a	E					✓	Operate website dedicated to green city/county program	1	0	0
I3b	E					✓	Develop environmental education content for city/county websites, tv programs, etc.	1	0	0

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#	Energy & Air Water Waste Health Land Use Awareness						Credit Name	MPP	MAP	CPA
	EA	W	W	H	LU	A				
I4a	E	✓				✓	Conduct regular education on energy use/energy savings modes for in-house equipment	1	0	0
J1a	L		✓			✓	Become a designated Waterfronts Florida community	1	0	0
J1b	L		✓		✓	✓	Become an Audubon Sustainable Community	1	0	0
J1c	L				✓		Create an endangered lands conservation / purchasing program	1	0	0
J1d	L				✓	✓	Certify community under National Wildlife Federation Wildlife Habitat program	1	0	0
J1e	L				✓		Develop & implement plans for species removal throughout public lands	1	0	0
J2a	L					✓	Become a member of FLERA	1	0	0
J3a	C	✓					Offer local tax based or other AFV incentives	1	0	0
J3b	C	✓					Enact automobile emissions regulations for vehicles registered in county	1	0	0
J3c	C	✓					Require vapor controls at all gas stations	1	0	0
J3d	C	✓					Enact open burning regulations	1	0	0
J4a	C				✓		Coastal areas to enact sea turtle ordinance	1	0	0
J4b	C				✓		Enact a manatee protection plan	1	0	0
J4c	C				✓		Develop a boat facility siting plan	1	0	0
J5a	C		✓				Enact car wash standards	1	0	0
J5b	C		✓				Enact fountain / water feature standards	1	0	0
J6a	E				✓	✓	Pertinent local GIS and other data on city/county website	1	0	0
J6b	E	✓				✓	Air quality index on website	1	0	0
J6c	E		✓			✓	Results from water quality testing on website	1	0	0
J6d	E					✓	Operate an environmental demonstration / learning center	1	0	0
K1a	L				✓	✓	Maintain organic community gardens	1	0	0
K1b	L				✓		Minimize chlorine in community swimming pools	1	0	0
K1c	L	✓			✓		Install appropriate bicycle security at all public amenities	1	0	0
K1d	L		✓			✓	Public golf courses are Audubon certified	2	0	0
K1e	L		✓			✓	Apply Florida Friendly landscaping principles at public amenities.	1	0	0
K1f	L	✓				✓	Minimize heat effect/stormwater runoff of trees, highly reflective materials, or surface	1	0	0
K1g	L		✓			✓	Public beaches adhere to Blue Wave Campaign criteria	5	0	0
K1h	L			✓		✓	Implement recycling stations for plastic, glass, and aluminum containers at all areas	1	0	0
K1i	L	✓					Implement energy efficient lighting & controls for outdoor courts, parks, and playfields	1	0	0
K2a	E					✓	Each staff member trained in an area related to their function on a bi-annual basis	1	0	0
K3a	E					✓	Place signs and/or brochures at green features of public amenities for their benefits	1	0	0
L1a	L					✓	Develop a system of sustainable community indicators related to local govt. planning	1	0	0
L1b	L					✓	Link indicators to a GIS system	1	0	0
L1c	L					✓	Assist other departments with the tracking of indicators related to their function	5	0	0

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#	Energy & Air Water Waste Health Land Use Awareness						Credit Name	MPP	MAP	CPA
	EA	W	WH	LU	A					
L2a	L	✓		✓	✓		Maintain a bicycle / pedestrian coordinator on staff	1	0	0
L2b	L	✓		✓	✓	✓	Implement FDOT "12 Steps Towards Walkable Communities" into planning process	1	0	0
L2c	L	✓		✓	✓	✓	Healthy street design is official local government policy	1	0	0
L3a	C			✓			Develop urban area boundaries	1	0	0
L3b	C	✓		✓	✓		Encourage mixed-use zoning / development	1	0	0
L3c	C	✓		✓			Maintain or reduce net impervious surface area through zoning decisions	1	0	0
L4a	E				✓		Organize green building seminars and/or training sessions for staff and elected officials	1	0	0
M1a	L	✓	✓	✓		✓	Take part in Florida Clean Marina program	1	0	0
M1b	L		✓		✓	✓	Implement advanced stormwater controls and waterfront considerations	1	0	0
M2a	C	✓	✓	✓	✓	✓	Offer low pollution engine incentives	1	0	0
M3a	E				✓		Host boater education classes	1	0	0
N1a	L					✓	Include green features / ratings of homes in database	2	0	0
N2a	C	✓	✓	✓	✓	✓	Tax incentives for certified green properties	2	0	0
N2b	C		✓		✓		Tax incentives for lands qualifying as historic, high water recharge, greenbelt, etc.	2	0	0
N3a	E					✓	Green education to local lending / real estate industry	1	0	0
O1a	L	✓					Utilize alternative fuels for fleet	2	0	0
O1b	L	✓		✓		✓	Institute a bicycle commuter assistance program	1	0	0
O1c	L	✓		✓			Make amends for vehicles to accommodate bicycles	1	0	0
O1d	L	✓		✓			Engage in carpool/vanpool assistance	1	0	0
O2a	L					✓	Analyze transportation routes to determine connectivity to bicycle & pedestrian network	1	0	0
O3a	L	✓	✓	✓			Operate a green fleet	1	0	0
O4a	E	✓		✓		✓	Provide public transportation route searching via the internet	1	0	0
O4b	E					✓	Provide information about alternative commuting on website	1	0	0
P1a	L		✓				Develop a construction project waste management/recycling plan	3	0	0
P1b	L		✓				Operate a local government material/chemical reuse/redistribution center	1	0	0
P1c	L		✓				Operate a community tool lending library	1	0	0
P1d	L	✓		✓	✓	✓	Maintain a green fleet program for department or entire local government	4	0	0
P1e	L			✓			Utilize integrated pest management	1	0	0
P2a	L	✓					Operate local government alternative fueling station	1	0	0
P2b	L	✓		✓			Earn waste reduction credit through the production of clean-burning fuels	1	0	0
P3a	L	✓					Use LED traffic lights	1	0	0
P3b	L	✓					Utilize solar or other energy efficient streetlights	1	0	0
P3c	L	✓	✓			✓	Operate a Rebuild America program for the local government	1	0	0
P4a	L		✓				Street sweeping	1	0	0

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#	Energy & Air Water Waste Health Land Use Awareness						Credit Name	MPP	MAP	CPA
	EA	W	WH	LU	A					
P4b	L		✓				Routine maintenance plan for maintenance of storm sewers	1	0	0
P4c	L		✓				Employ green landscaping procedures for local government facilities	1	0	0
P5a	L		✓		✓	✓	Become a Tree City USA	1	0	0
P6a	C					✓	Develop a reward program for employee environmental innovation in public works	1	0	0
P7a	E					✓	Offer green fleet management training to all applicable departments	1	0	0
P7b	E					✓	Train and certify select staff as certified arborists	1	0	0
P8a	E		✓			✓	Community stormwater education campaign	1	0	0
Q1a	L	✓					Utilize alternative fuel for school busses	2	0	0
Q2a	L		✓		✓		School grounds certified by environmental program	5	0	0
Q3a	L	✓	✓	✓	✓		School system utilizes a pollution prevention / EPP program	1	0	0
Q3b	L			✓			School equipment reuse program / swap shop	1	0	0
Q3c	L	✓	✓	✓	✓		Operate and maintain a green fleet program	1	0	0
Q4a	L	✓	✓	✓	✓		Green operation and maintenance of buildings	1	0	0
Q4b	L	✓	✓	✓	✓		Construct / renovate green schools	10	0	0
Q5a	C	✓	✓	✓	✓	✓	Mandates for green buildings / green cleaning and maintenance	4	0	0
Q6a	E					✓	Involve students in green projects within the school	2	0	0
Q6b	E					✓	Involve students in green projects outside the school	2	0	0
Q7a	E					✓	Incentives for environmental training of teachers over the summer	2	0	0
R1a	L			✓		✓	Become a partner in the EPA waste wise program	1	0	0
R1b	L			✓			City/county wide chemical/hazardous waste collection	1	0	0
R1c	L			✓		✓	Operate public reuse store / swap shop	1	0	0
R1d	L			✓			C&D separation for recycling at landfill (pallets,metals,carpet padding,cement,etc.)	1	0	0
R1e	L			✓			Offer recycled paint back to community	1	0	0
R1f	L	✓					Landfill gas recovery	1	0	0
R1g	L			✓			Develop a disaster waste management plan	1	0	0
R2a	L			✓			Curbside recycling for homes and businesses	1	0	0
R2b	L			✓		✓	Monitor types and amounts of material entering landfill	1	0	0
R3a	L				✓		Closed landfill management	1	0	0
R4a	C			✓			Incentives for local businesses who utilize EPP or other solid waste reduction strategy	1	0	0
R4b	C			✓			Mandatory recycling of typical recyclables and C&D debris for homes and businesses	1	0	0
R5a	C			✓		✓	Volume based or special rates for solid waste collection	1	0	0
R5b	C			✓			Offer mulched yard waste to community	1	0	0
R6a	E			✓		✓	Teach EPP / recycling to local businesses	1	0	0
R6b	E			✓		✓	Develop education program for solid waste management	1	0	0

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Energy & Air Water Waste Health Land Use Awareness										
#	EA	W	W	H	LU	A	Credit Name	MPP	MAP	GPA
R7a	E					✓	Conduct a customer waste survey	1	0	0
S1a	L		✓			✓	Seek FLDEP plant operations excellence award	2	0	0
S1b	L		✓				Create a reclaimed water infrastructure	2	0	0
S2a	L	✓					Conduct energy audit of treatment facilities	1	0	0
S2b	L	✓					Use cogeneration	1	0	0
S3a	L			✓			Use recycled bill envelopes	1	0	0
S4a	C		✓			✓	Utilize rate structures based on consumption	1	0	0
S4b	C		✓				Low flow fixture rebates	1	0	0
S4c	C		✓			✓	Enforce watering restrictions during meter reads	1	0	0
S4d	C		✓				Require metering of shallow aquifer removal and sub-metering of multi-family housing	1	0	0
S5a	E		✓			✓	Utilize informative billing	1	0	0
S5b	E					✓	Distribute printed material or create internet content detailing water wastewater source	1	0	0
S5c	E					✓	Create an education campaign for water use reduction (xeriscape, rainwater, etc.)	1	0	0
S5d	E		✓			✓	Maintain an on-call water quality program	1	0	0
S5e	E		✓			✓	Become part of groundwater guardian program	1	0	0
S5f	E		✓			✓	Offer home and business audits	1	0	0
S5g	E		✓			✓	Enable customers to track and analyze their usage via the internet	1	0	0

- ☐ L Lead by Example
☐ C Control
☐ E Education



Florida Green Building Coalition, Inc.
www.FloridaGreenBuilding.org

Maximum Possible Points Total 365

Maximum Applicable Points Total 0

Credit Points Achieved Total 0

Percent of Maximum Applicable Points Total #### %

(Note: Values are tallied for entire program, not just visible criteria.)

Updates to August 22, 2006 Workshop on Smart Energy Strategies

1. 1A – Recommendation (Fleet Management) - Fund the 2006-2007 budget request for the replacement of three Jeep Cherokees with Ford Escape Hybrids (which is included in the tentative budget).

The Fleet Division recently purchased three new 2007 Ford Escape Hybrids to replace some comparatively fuel-inefficient Jeep Cherokees. The new hybrids average 31 miles per gallon (mpg) while the Cherokees only averaged 19 mpg. Two of the vehicles were issued to the Growth and Environmental Management Department for use by Environmental Inspectors. The third is used by Leon County Recycling as a “vehicle” for public education. Fleet Management will continue to evaluate hybrid vehicle models and procure them for County programs when appropriate.

2. 1B – Recommendation (County Administration) - Direct staff to develop a policy for the Board’s consideration that provides incentives for hybrid vehicle ownership (such as tax and vehicle registration fee rebates, and waiving parking fees for employees at the Courthouse and for the public at the main library).

Staff continues to evaluate effective hybrid vehicle incentives that may be adopted by the Board.

3. 1C – Recommendation (County Administration) - Direct staff to develop a draft policy for the Board’s consideration that provides incentives for employees to use alternative transportation.

Staff continues to evaluate potential incentives that may be provided to County employees that utilize alternative transportation.

4. 1D - Recommendation (Human Resources) - Direct staff to investigate the feasibility of implementing a telecommuting program for Board employees.

The issue of telecommuting is being considered in the broader picture of Business Continuity Planning. A recommendation will be returned to the Board this summer.

5. 2A - Recommendation (Facilities Management) - Direct staff to pursue additional recognition under NaCo’s ENERGY STAR® “Courthouse Campaign” following a completion of the ESCO project.

Staff is currently implementing the ESCO project through an energy savings company, Energy Systems Group (ESG), and has gained the commitment of ESG to perform the upload of all data and analysis required for a formal application to

NACO for recognition under the "Courthouse Campaign" program, using USEPA Portfolio Manager Software. Furthermore, staff has been advised it will be recognized by NACO as a County Energy Spotlight.

6. 2B – Recommendation (Facilities Management) - Direct staff to pursue a pilot demonstration "Green Building," according to one or more of the available certification programs (ENERGY STAR®, FGBC "Green Building," or USGBC-LEEDS) as a logical first step for determining the specific costs, and available environmental and energy savings, that are associated with building "green." Options would include the Landfill's administration building, Woodville Branch Library, or other locations.

Staff will pursue one or more of the available "green building" certification programs according to House Bill 7123 for future new building design.

7. 3A – Recommendation (Growth and Environmental Management/Planning) - During the upcoming review and revision process as approved by the Board based on the recommendations of the County's Blue Ribbon Focus Group, direct staff to examine and investigate changes to the County's Land Development to encourage new development that promotes energy conservation and improved air quality.

Staff is on track to include this in the upcoming Land Development Code revision process. It is anticipated that the code revision proposals will be presented to the Board this summer for consideration.

8. 3B – Recommendation (Solid Waste) - Direct staff to report to the Board the results of the amount of gas generated and possible uses.

The Landfill Gas (lfg) collection and treatment system project has been completed. On April 26, 2007, the Solid Waste Management Division began capturing and burning landfill gas at the Apalachee Solid Waste Management Facility on Highway 27 south. Lfg quantity and quality data (prerequisites to developing options for conversion to energy) will be reported to the Board at a later date.

9. 3C – Recommendation (Purchasing) - Direct staff to continue the practice of purchasing ENERGY STAR ® rated products when possible.

Staff has continued to procure Energy Star® rated products where applicable.

10. 3D – Recommendation (Management Information Services) - Direct staff to activate energy settings on MIS-supported monitors and CPUs and educate users as to the effects on their systems.

In support of Board direction to implement energy savings processes, MIS has performed extensive training with various power-saving settings on monitors and computers to determine the best possible energy savings available in our

environment. Liaisons for the Constitutional offices were consulted relative to the proposed settings and to support these findings.

Monitor and Workstation - For monitors with power-savings settings, the power scheme proposed is to automatically turn off monitors after 15 minutes and turn off hard disks after 1 hour. To wake up the system the user simply moves the mouse or touches a key on the keyboard. It can be detrimental to the life of the hard disk to constantly turn on and off, thus the recommendation for a longer up-time for hard disks.

Although Hibernation and Standby modes put the computers in an almost-off state and could allow greater energy savings, these options are not viable in our environment in order to allow continued use of existing network management software.

With these settings, it will allow all computers to be left on at night with little impact to energy requirements. It is necessary to have computers on at night to allow necessary lengthy updates to automatically occur with little or no impact to the workstation user during the day.

Training - Extensive user training is recommended. Staff suggests that the initial training be in conjunction with Facilities Management as other energy savings are implemented and announced. Additional user training would be accomplished through an educational website and flyers.

11. 3E - Recommendation (Management Services Support Services) - Direct staff to return to the Board with additional analysis regarding joining the Cool Cities program.

Staff has been in contact with the City of Seattle, Office of Sustainability and Environment, who has spearheaded the Cool Cities program. Staff was informed that in June 2007, this program is going to be transferred to the US Conference of Mayors and there will likely be no provision for membership by counties.

Staff has contacted King County, Washington and was informed that there are a number of counties that will be proposing a Cool Counties program at the National Association of Counties conference in July 2007. The Cool Counties program will have many of the same provisions as the US Mayors Climate Protection Agreement, which is the basis of the Cool Cities program. Staff will track the development of the proposed program.

12. 4A Recommendation (Facilities Management) - Direct staff to identify a location and funding for the demonstration and testing of solar thermal water heating technology.

A CIP budget request has been prepared and submitted by Facilities Management, and will be evaluated by OMB and the Board in conjunction with the FY 2007/2008 budget process, to install these systems on a demonstration basis at a rate of two facilities per year for the next three years.

13. 4B – Recommendation (**Fleet Management**) - Direct staff to report the Biodiesel fuel pilot test results to the Board for consideration of continuation and expansion.

The Fleet Division has continued to pilot test fuel mixture of 80% petroleum and 20% biomass in three of the heavy-duty trucks: Unit #1575 (2001 Ford F-450), # 1782 (2005 F-350) and # 1830 (2005 F-350). The performance level of Biodiesel has remained relatively constant at 13.2 miles per gallon (mpg). The Fleet Division will continue to monitor the three units and report to the Board any significant changes.

14. 5A – Recommendation (**Public Information Office**) - Direct staff to implement public information initiatives within current funding capacity.

Since the August 22, 2006 workshop, the Public Information Office has conducted the following outreach: Outreach for Green Fair, Canopy Oaks Lighting System, Energy Conservation "Local Energy Strategy Showcase", and Internal Outreach for Smart Energy Strategy. As a result of these outreaches, media placements have been secured by the Local ABC and CBS affiliate television stations and the Tallahassee Democrat.

15. 5B – Recommendation (**Management Services Support Services**) - Direct staff to pursue County membership in ICLEI and continued learning opportunities.

Staff has been in contact with ICLEI on numerous occasions to determine the membership process. A membership application and the passage of a Resolution supporting the ICLEI Cities for Climate Protection Campaign are included in this workshop item.